

# The Darwin Cluster @ LANL

*Evaluating the Evolution of HPC*

## CPU Evolution: Manycore



### 116 nodes/5568 cores

Quad-Socket, 12-core, Magny-Cours

- 64 GB of memory/node
- 8 NUMA domains



### 4 nodes/256 cores

Eight-Socket, 8-core, Nehalem EX

- 128 GB of memory/node
- 8 NUMA domains
- 4 Sockets x 4 Sockets connected by external QPI

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